

REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

New claims 39-41 have been added.

This amendment adds, changes and/or deletes claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending the claims as set forth above, claims 1 and 4-41 are now pending in this application. Claims 7-14, 16-18, 20-34, 37, and 38 are withdrawn from consideration.

Claim Objection

Claim 4 is objected to for containing informalities. Applicant respectfully submits that the amendments to the claims render this objection moot. Reconsideration and withdrawal of this objection is respectfully requested.

Rejections under 35 U.S.C. § 112

Claims 4, 5, 10, and 35 are rejected under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite. These rejections are respectfully traversed.

In regard to the rejections of claims 4 and 5, Applicant respectfully submits that amendments to the claims render these rejections moot.

In regard to the rejection of claim 35, Applicant respectfully submits that one of ordinary skill in the art would understand the meaning and scope of claim 35. In addition, Applicant respectfully submits that the disclosure of Applicant's application provides context for one of ordinary skill in the art to understand the meaning and scope of claim 35. For example, at least page 5, lines 6-38; page 7, lines 14-27; and page 8, lines 14-27 provide context for one of ordinary skill in the art to understand the meaning and scope of claim 35.

For at least the reasons discussed above, reconsideration and withdrawal of these rejections is respectfully requested.

Rejections under 35 U.S.C. § 103

CN 1,413,797 and U.S. 5,916,635

Claims 1, 4, 15, 19, 35, and 36 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over CN 1,413,797 to Peng *et al.* (hereafter “Peng”) in view of U.S. Patent No. Ishii *et al.* (hereafter “Ishii”). This rejection is respectfully traversed.

The Office suggests on page 5 of the Office Action that Peng discloses a method of soldering using an active connection agent prepared from nanometer powder which was mixed with water, organic cellulose, and flux.

However, Peng does not disclose or suggest a brazing flux for the brazing of individual heat exchanger parts that comprises, a flux comprising a base material and nanoparticles, wherein the flux contains nanoparticles in an amount between 0.01% by volume and 10% by volume, and wherein the nanoparticles are dispersed in an organic polymer nanoaggregate, as recited in claim 1. Claims 4, 15, 19, 35, and 36 depend from claim 1. For example, Peng is does not disclose or suggest a flux comprising a base material and nanoparticles, wherein the nanoparticles are dispersed in an organic polymer nanoaggregate, as recited in claim 1.

Ishii discloses water-based hydrophilic coatings and fin materials for heat exchangers that use such hydrophilic coatings. See Ishii at col. 1, lines 8-12. The Office asserts on page 5 of the Office Action that Ishii discloses that the hydrophilic coatings are produced by mixing colloidal silica, water-soluble polymers, and anionic surfactants over aluminum fins and then drying the mixture. However, Ishii does not remedy the deficiencies of Peng because Ishii also does not disclose or suggest a flux comprising a base material and nanoparticles, wherein the nanoparticles are dispersed in an organic polymer nanoaggregate, as recited in claim 1.

For at least the reasons discussed above, the combination of Peng and Ishii does not disclose or suggest all of the features of claim 1. Reconsideration and withdrawal of this rejection is respectfully requested.

In addition, the Office also suggests on page 5 of the Office Action that Peng is silent in regard to the nanoparticle amount recited in claim 1 but that the combination of Peng and Ishii render claim 1, including this feature, unpatentable. Applicant reserves the right to traverse this argument.

CN 1,413,797, U.S. 5,916,635, and EP 1 287 941

Claims 5 and 6 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Peng and Ishii in view of EP 1 287 941 to Englert *et al.* (hereafter “Englert”). This rejection is respectfully traversed. Englert fails to remedy the deficiencies of Peng and Ishii discussed above in regard to independent claim 1, from which claims 5 and 6 depend. Reconsideration and withdrawal of this rejection is respectfully requested.

New Claims

New claims 39-41 have been added. Claims 39-41 depend from claim 1 and are allowable over the prior art for at least the reasons discussed above and for their respective additional recitations.

CONCLUSION

Applicant submits that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing or a credit card payment form being unsigned, providing incorrect information resulting in a rejected credit card transaction, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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By P.D.S.

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